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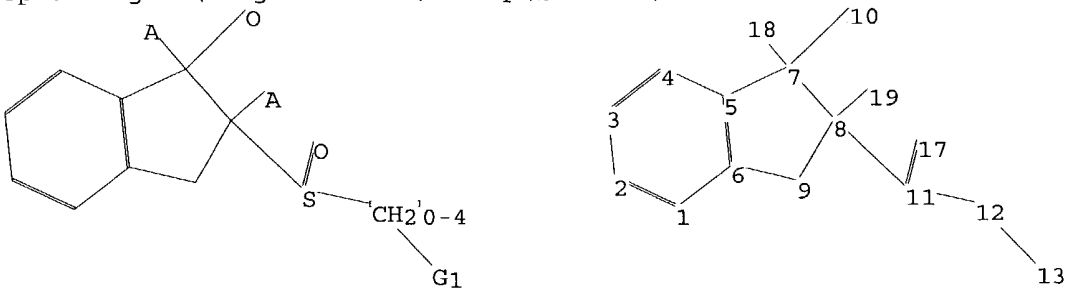


chain nodes :
10 11 12 13 17 18 19
ring nodes :
1 2 3 4 5 6 7 8 9
chain bonds :
7-10 7-18 8-11 8-19 11-12 11-17 12-13
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9
exact/norm bonds :
5-7 6-9 7-8 7-10 7-18 8-9 8-11 8-19 11-17 12-13
exact bonds :
11-12
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

G1:Cy,Ak

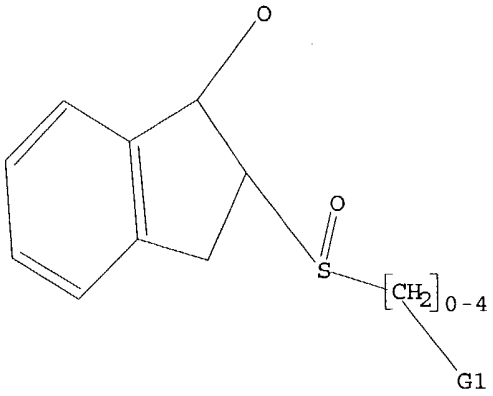
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
11:CLASS 12:CLASS 13:CLASS 17:CLASS 18:CLASS 19:CLASS

L1 STRUCTURE UPLOADED

=> que L1

L2 QUE L1

=> d
L2 HAS NO ANSWERS
L1 STR



G1 Cy,Ak

Structure attributes must be viewed using STN Express query preparation.
L2 QUE ABB=ON PLU=ON L1

=> s l2
SAMPLE SEARCH INITIATED 14:37:28 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 721 TO ITERATE

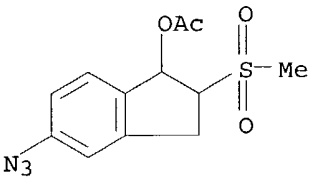
100.0% PROCESSED 721 ITERATIONS 4 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 12810 TO 16030
PROJECTED ANSWERS: 4 TO 200

L3 4 SEA SSS SAM L1

=> d scan

L3 4 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 1H-Inden-1-ol, 5-azido-2,3-dihydro-2-(methylsulfonyl)-, acetate (ester) (9CI)
MF C12 H13 N3 O4 S



HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s l2 full
FULL SEARCH INITIATED 14:37:56 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 14788 TO ITERATE

100.0% PROCESSED 14788 ITERATIONS 69 ANSWERS
SEARCH TIME: 00.00.01

L4 69 SEA SSS FUL L1

=>

=>

=> s l4 and sulfox?
  9366 SULFOX?
L5 0 L4 AND SULFOX?

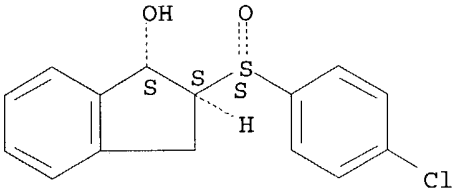
=> s l4 and sulfo?
  1667899 SULFO?
L6 39 L4 AND SULFO?

=> s l4 not l6
L7 30 L4 NOT L6

=> d scan

L7 30 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 1H-Inden-1-ol, 2-[(4-chlorophenyl)sulfinyl]-2,3-dihydro-, [1α,2β(R*)]- (9CI)
MF C15 H13 Cl O2 S

Relative stereochemistry.

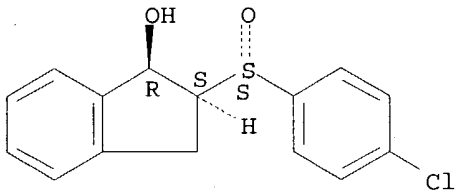


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):10

L7 30 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 1H-Inden-1-ol, 2-[(4-chlorophenyl)sulfinyl]-2,3-dihydro-, [1α,2α(S*)]- (9CI)
MF C15 H13 Cl O2 S

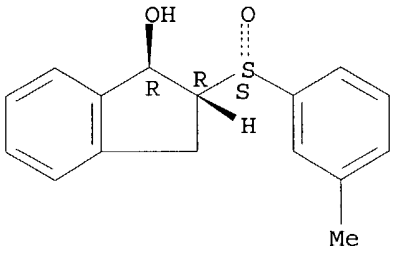
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 30 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 1H-Inden-1-ol, 2,3-dihydro-2-[(3-methylphenyl)sulfinyl]-, [1α,2β(S*)]- (9CI)
MF C16 H16 O2 S

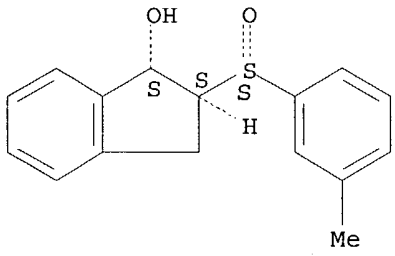
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 30 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 1H-Inden-1-ol, 2,3-dihydro-2-[(3-methylphenyl)sulfinyl]-, [1α,2β(R*)]- (9CI)
MF C16 H16 O2 S

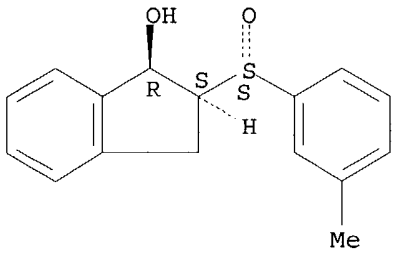
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 30 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 1H-Inden-1-ol, 2,3-dihydro-2-[(3-methylphenyl)sulfinyl]-, [1α,2α(S*)]- (9CI)
MF C16 H16 O2 S

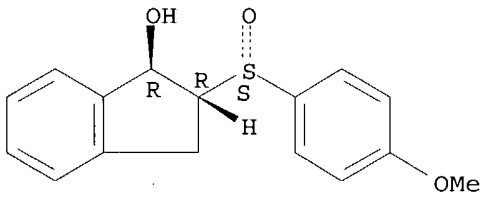
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 30 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 1H-Inden-1-ol, 2,3-dihydro-2-[(4-methoxyphenyl)sulfinyl]-, [1α,2β(S*)]- (9CI)
MF C16 H16 O3 S

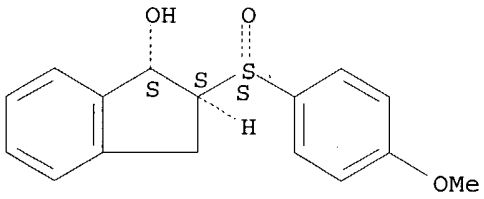
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 30 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 1H-Inden-1-ol, 2,3-dihydro-2-[(4-methoxyphenyl)sulfinyl]-, [1α,2β(R*)]- (9CI)
MF C16 H16 O3 S

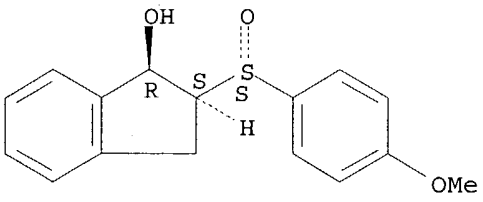
Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

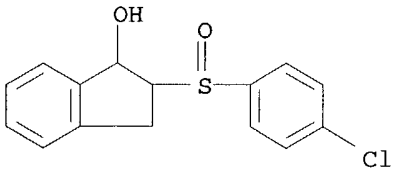
L7 30 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 1H-Inden-1-ol, 2,3-dihydro-2-[(4-methoxyphenyl)sulfinyl]-, [1α,2α(S*)]- (9CI)
MF C16 H16 O3 S

Relative stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L7 30 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN
IN 1H-Inden-1-ol, 2-[(4-chlorophenyl)sulfinyl]-2,3-dihydro- (9CI)
MF C15 H13 Cl O2 S



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=> s l7
L8          22 L7

=> d ibib abs hitstr 1-22

L8   ANSWER 1 OF 22  CAPLUS  COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER:        2003:202618  CAPLUS
DOCUMENT NUMBER:         138:221365
TITLE:                   Preparation of indan-1-ols as appetite depressants
INVENTOR(S):             Jaehne, Gerhard; Krone, Volker; Bickel, Martin;
                         Gossel, Matthias
PATENT ASSIGNEE(S):      Aventis Pharma Deutschland G.m.b.H., Germany
SOURCE:                  PCT Int. Appl., 53 pp.
                         CODEN: PIXXD2
DOCUMENT TYPE:           Patent
LANGUAGE:                German
FAMILY ACC. NUM. COUNT:  1
PATENT INFORMATION:

     PATENT NO.        KIND  DATE          APPLICATION NO.  DATE
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     WO 2003020696      A1   20030313      WO 2002-EP9206   20020817
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
             CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,
             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,
             UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG,
             CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
             PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR,
             NE, SN, TD, TG
     DE 10142667        A1   20030327      DE 2001-10142667 20010831
     US 2003114681      A1   20030619      US 2002-231394   20020830
     US 6657086         B2   20031202
     US 2004068016      A1   20040408      US 2003-665021   20030922
PRIORITY APPLN. INFO.:                  DE 2001-10142667 A  20010831
                                        US 2002-231394   A3 20020830
OTHER SOURCE(S):         MARPAT 138:221365
GI
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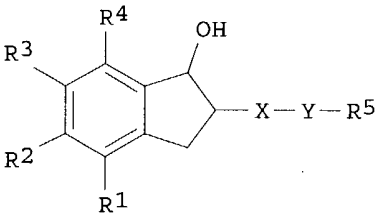

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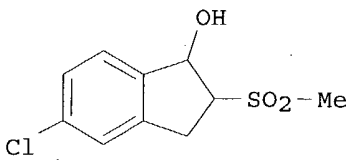


II

AB Title compds. I [R1, R2, R3, R4 = H, halo, CN, etc.; X = S, SO, SO2; Y = (CH2)p; p = 0-3; R5 = CF3, alkyl, cycloalkyl] and their pharmaceutically acceptable salts were prepared For example, NaBH4 mediated reduction of 5-chloro-2-methylsulfonylindan-1-one, e.g., prepared from 2-bromo-5-chloroindan-1-one in 2-steps, provided indanol II. In milk consumption studies with female NMRI mice, indanol II exhibited very good

anorectic effects, i.e., 50% decrease in milk consumption verses control.

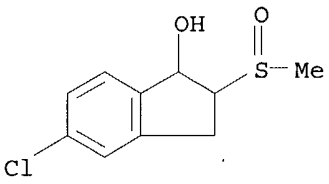
IT **500910-96-3P**

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(drug candidate; preparation of indanols as appetite depressants)

RN 500910-96-3 CAPLUS

CN 1H-Inden-1-ol, 5-chloro-2,3-dihydro-2-(methylsulfinyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2003:202465 CAPLUS

DOCUMENT NUMBER: 138:221361

TITLE: Preparation of indan-1-ols for producing drugs for the prophylaxis or treatment of obesity

INVENTOR(S): Jaehne, Gerhard; Krone, Volker; Bickel, Martin; Gossel, Matthias

PATENT ASSIGNEE(S): Aventis Pharma Deutschland G.m.b.H., Germany

SOURCE: PCT Int. Appl., 52 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003020263	A1	20030313	WO 2002-EP9205	20020817
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10142666	A1	20030320	DE 2001-10142666	20010831
US 2003134879	A1	20030717	US 2002-231183	20020830

PRIORITY APPLN. INFO.: DE 2001-10142666 A 20010831

OTHER SOURCE(S): MARPAT 138:221361

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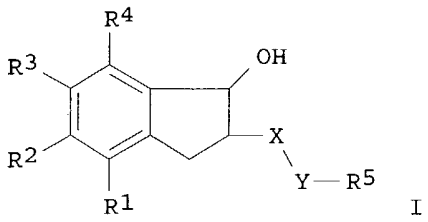


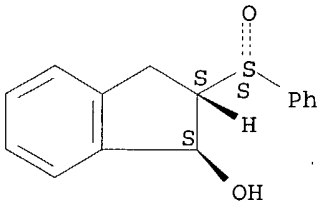
I

AB Title compds. [I; R1-R4 = H, F, Cl, Br, I, cyano, N3, NO2, OH, alkoxy, cycloalkoxy, benzyloxy, phenoxy, alkylcarbonyloxy, etc.; X = S, SO, SO2; Y = (CH2)p; p = 0-3; R5 = CF3, (fluorinated) alkyl, cycloalkyl, etc.], were prepd for producing a drug for body weight loss of mammals. Thus, 5-chloro-2-methylsulfonylindan-1-one (preparation given) and NaBH4 in EtOH were put into a ultrasound bath for 4 h followed by stirring with 2N HCl to give 5-chloro-2-methylsulfonylindan-1-ol. The latter at 20 mg/kg i.p. was applied in female NMRI mice and gave 50% reduction of milk consumption of the treated mice.

IT **95720-00-6P 134779-81-0P 134779-82-1P 500910-96-3P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of indanols for producing drugs for prophylaxis or treatment of obesity)

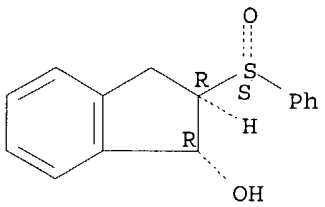
RN 95720-00-6 CAPLUS
CN 1H-Inden-1-ol, 2,3-dihydro-2-[(R)-phenylsulfinyl]-, (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



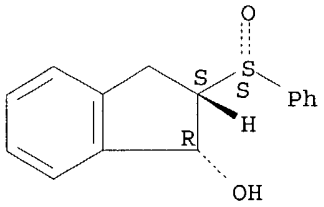
RN 134779-81-0 CAPLUS
CN 1H-Inden-1-ol, 2,3-dihydro-2-[(R)-phenylsulfinyl]-, (1S,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

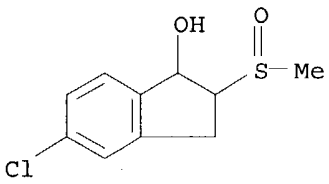


RN 134779-82-1 CAPLUS
CN 1H-Inden-1-ol, 2,3-dihydro-2-[(R)-phenylsulfinyl]-, (1S,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 500910-96-3 CAPLUS
CN 1H-Inden-1-ol, 5-chloro-2,3-dihydro-2-(methylsulfinyl)- (9CI) (CA INDEX NAME)

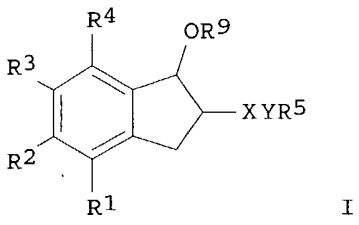


REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:202409 CAPLUS
DOCUMENT NUMBER: 138:226750
TITLE: Use of C2-substituted indan-1-ol derivatives in antiobesity drugs
INVENTOR(S): Jaehne, Gerhard; Krone, Volker; Bickel, Martin; Gossel, Matthias
PATENT ASSIGNEE(S): Aventis Pharma Deutschland G.m.b.H., Germany
SOURCE: PCT Int. Appl., 54 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003020199	A1	20030313	WO 2002-EP9199	20020817
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10142660	A1	20030320	DE 2001-10142660	20010831
US 2003134881	A1	20030717	US 2002-230379	20020829
US 6667345	B2	20031223		

PRIORITY APPLN. INFO.: DE 2001-10142660 A 20010831
OTHER SOURCE(S): MARPAT 138:226750
GI



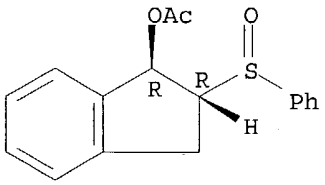
I

AB The invention relates to the use of C2-substituted indan-1-ol systems, and to the physiol. tolerable salts and the physiol. functional derivs. of the same, for producing medicaments used to reduce the weight of mammals, and for the prophylaxis or the treatment of obesity. The invention also relates to the use of compds. of formula (I), wherein the radicals have the cited designations, and to the physiol. tolerable salts and the physiol. functional derivs. of the same, for producing a medicament for the prophylaxis or the treatment of obesity. The antiobesity drugs can be combined with other active ingredients, e.g. cathine, phenylpropanolamine, amfepramone, mefenorex. Capsules, tablets, emulsions, dragees and suppositories are prepared containing the indan-1-ol derivative antiobesity drugs.

IT **500770-90-1 500770-91-2 500770-94-5**
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(use of C2-substituted indan-1-ol derivs. in antiobesity drugs)

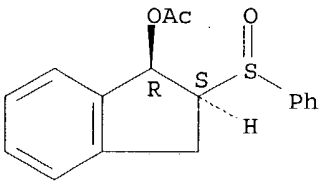
RN 500770-90-1 CAPLUS
CN 1H-Inden-1-ol, 2,3-dihydro-2-(phenylsulfinyl)-, acetate, (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

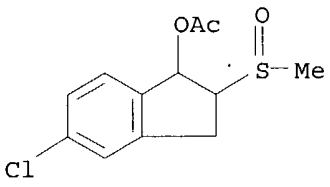


RN 500770-91-2 CAPLUS
CN 1H-Inden-1-ol, 2,3-dihydro-2-(phenylsulfinyl)-, acetate, (1R,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 500770-94-5 CAPLUS
CN 1H-Inden-1-ol, 5-chloro-2,3-dihydro-2-(methylsulfinyl)-, acetate (9CI) (CA INDEX NAME)

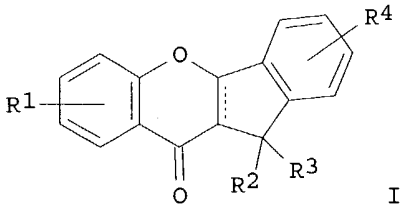


REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 4 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1999:733853 CAPLUS
DOCUMENT NUMBER: 131:322537
TITLE: Preparation of 10,11-dihydro-11-hydroxybenz[b]indeno[2,1-e]pyran-10-ones and analogs for enhancing biosynthesis of erythropoietin
INVENTOR(S): Williams, Jonathan Gareth; Houck, David R.; Smith, David Edward; Rathbone, Daniel Lee; Billington, David Charles; Golding, Bernard T.; Collington, Eric W.; Kitchin, John; Rich, Nicholas
PATENT ASSIGNEE(S): OSI Pharmaceuticals, Inc., USA
SOURCE: U.S., 13 pp., Cont.-in-part of U.S. 5,882,436.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5985913	A	19991116	US 1998-69693	19980429

PRIORITY APPLN. INFO.: US 1996-32268P P 19961129
US 1997-978346 A2 19971126
OTHER SOURCE(S): MARPAT 131:322537
GI

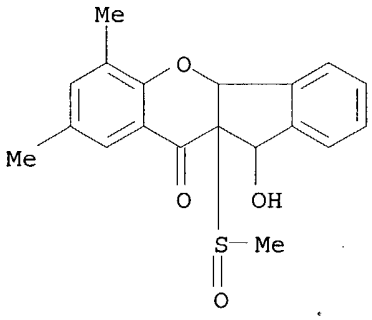


I

AB Title compds. [I; R1,R4 = H or 1-4 of halo, alkyl, alkoxy, etc.; R2 = OR10 and R3 = H or R2R3 = O; R10 = H or alkanoyl; dashed line = optional addnl. bond] were prepared Thus, 3',5'-dimethyl-2'-hydroxy-2-methylsulfinylacetophenone (preparation given) was cyclocndensed with 2-(OHC)C6H4CHO to give I (R1 = 6,8-Me2, R2 = OH, R3 = R4 = H, dashed line = bond). Data for biol. activity of I were given.

IT **249514-81-6P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of 10,11-dihydro-11-hydroxybenz[b]indeno[2,1-e]pyran-10-ones

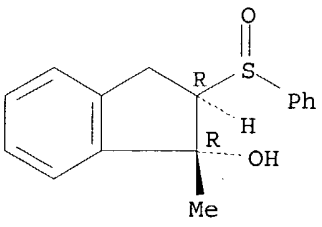
and analogs for enhancing biosynthesis of erythropoietin)
RN 249514-81-6 CAPLUS
CN Benz[b]indeno[2,1-e]pyran-10(4bH)-one, 10a,11-dihydro-11-hydroxy-6,8-dimethyl-10a-(methylsulfinyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

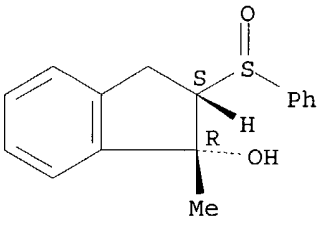
L8 ANSWER 5 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1994:409577 CAPLUS
DOCUMENT NUMBER: 121:9577
TITLE: Reactions of η2-(2-acylaryl-C,O)tetracarbonylmanganese(I) complexes with some vinyl sulfur compounds
AUTHOR(S): Cambie, Richard C.; Rutledge, Peter S.; Welch, David R.; Woodgate, Paul D.
CORPORATE SOURCE: Department of Chemistry, University of Auckland, Private Bag 92019, Auckland, N. Z.
SOURCE: Journal of Organometallic Chemistry (1994), 467(2), 237-44
CODEN: JORCAI; ISSN: 0022-328X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 121:9577
AB The thermally promoted reactions of some Ph and diterpenoid η2-(2-acylaryl-C,O)tetracarbonylmanganese(I) complexes with Ph vinyl sulfone, Me vinyl sulfone, or Ph vinyl sulfoxide, have been investigated. The major products from the diterpenoid complexes arises from insertion followed by reductive demetalation; cyclopenta-annulation, when it occurs, is a minor process. Liberation of the metal-free adducts from their Mn-containing precursors requires treatment with either acid or photolysis-oxidation
IT **155519-28-1P 155519-29-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 155519-28-1 CAPLUS
CN 1H-Inden-1-ol, 2,3-dihydro-1-methyl-2-(phenylsulfinyl)-, (1α,2β)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



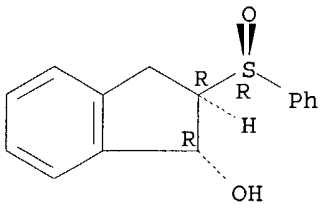
RN 155519-29-2 CAPLUS
CN 1H-Inden-1-ol, 2,3-dihydro-1-methyl-2-(phenylsulfinyl)-, (1α,2α)- (9CI) (CA INDEX NAME)

Relative stereochemistry.



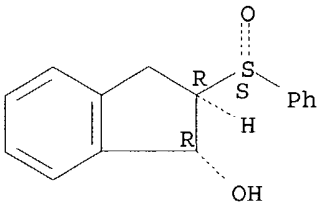
L8 ANSWER 6 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1991:558285 CAPLUS
DOCUMENT NUMBER: 115:158285
TITLE: Cooxidation reaction of indene and aromatic thiols in the presence of ovalbumin
AUTHOR(S): Freer, Juanita; Fuentealba, Cecilia; Gonzalez, Elizabeth; Baeza, Jaime
CORPORATE SOURCE: Dep. Quim., Univ. Concepcion, Concepcion, Chile
SOURCE: Phosphorus, Sulfur and Silicon and the Related Elements (1991), 61(1-2), 41-8
CODEN: PSSLEC; ISSN: 1042-6507
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 115:158285
AB The thiol olefin cooxidn. reaction (TOCO) between indene and aromatic thiols in presence of ovalbumin has been studied in hexane. While this reaction under normal conditions leads to the formation of 6 products, in the presence of OVA give stereospecifically only the trans-2-phenylmercapto-1-indanol derivative on the protein surface.
IT **32819-87-7P 32819-88-8P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 32819-87-7 CAPLUS
CN 1H-Inden-1-ol, 2,3-dihydro-2-(phenylsulfinyl)-, [1R-[1α,2β(R*)]]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 32819-88-8 CAPLUS
CN 1H-Inden-1-ol, 2,3-dihydro-2-(phenylsulfinyl)-, [1R-[1α,2β(S*)]]- (9CI) (CA INDEX NAME)

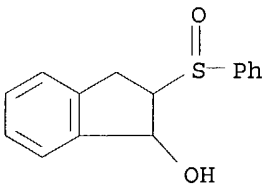
Absolute stereochemistry.



L8 ANSWER 7 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1991:539316 CAPLUS
DOCUMENT NUMBER: 115:139316
TITLE: Fuel instability model studies: the liquid-phase cooxidation of thiols and indene by oxygen
AUTHOR(S): Morris, Robert E.; Mushrush, George W.
CORPORATE SOURCE: Nav. Technol. Cent. Saf. Survivabil., Nav. Res. Lab., Washington, DC, 20375, USA
SOURCE: Energy & Fuels (1991), 5(5), 744-8
CODEN: ENFUEM; ISSN: 0887-0624
DOCUMENT TYPE: Journal
LANGUAGE: English

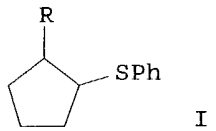
AB Instability problems in middle distillate fuels were correlated with the presence of both active olefin species and heteroat. compds. such as thiols. The type of S compound rather than the total S concentration is the key to fuel instability reactions. Low concns. of thiols will act as radical traps to inhibit autoxidn. When added to a fuel, thiols accelerated the rate of Oxidation without a commensurate increase in peroxidn. Evidence for the oxidative addition of thiols to olefins was observed by studying the addition of thiophenol to indene in a model fuel during stressing in both a model system at 100-120° and in the jet fuel thermal oxidation test apparatus at 350°. Similarities and differences were found in the 2 systems, with the product distribution being temperature dependent. This could account, in part, for the differences in thiol influences on autoxidn. observed in model systems and in fuels.

IT **92621-28-8P**
RL: FORM (Formation, nonpreparative); PREP (Preparation)
(formation of, in reaction of indene with thiophenol and oxygen, jet fuel instability model study in relation to)
RN 92621-28-8 CAPLUS
CN 1H-Inden-1-ol, 2,3-dihydro-2-(phenylsulfinyl)- (9CI) (CA INDEX NAME)



L8 ANSWER 8 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1991:448966 CAPLUS
DOCUMENT NUMBER: 115:48966
TITLE: Cooxidation between thiophenol and cyclopentene
AUTHOR(S): Freer, Juanita; Palma, Graciela; Fuentealba, Cecilia; Pena, Monica; Baeza, Jaime
CORPORATE SOURCE: Dep. Quim., Univ. Concepcion, Concepcion, Chile

SOURCE: Boletin de la Sociedad Chilena de Quimica (1991), 36(1), 11-16
CODEN: BOCQAX; ISSN: 0366-1644
DOCUMENT TYPE: Journal
LANGUAGE: Spanish
GI



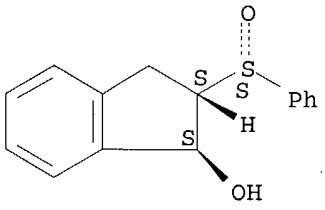
I

AB Treatment of thiophenol with cyclopentene in the presence of O2 gene adduct I (R = H) as well as cooxidn. products, i.e., cis- and trans-I (R = OH) and the sulfoxide derivs. The reaction of thiophenol with indene gave similar results.

IT **95720-00-6P 134779-81-0P 134779-82-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

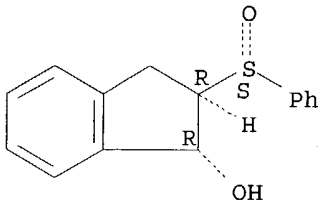
RN 95720-00-6 CAPLUS
CN 1H-Inden-1-ol, 2,3-dihydro-2-[(R)-phenylsulfinyl]-, (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



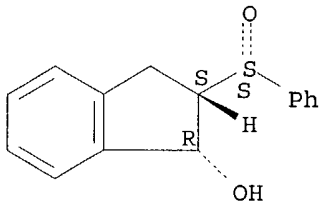
RN 134779-81-0 CAPLUS
CN 1H-Inden-1-ol, 2,3-dihydro-2-[(R)-phenylsulfinyl]-, (1S,2S)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 134779-82-1 CAPLUS
CN 1H-Inden-1-ol, 2,3-dihydro-2-[(R)-phenylsulfinyl]-, (1S,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

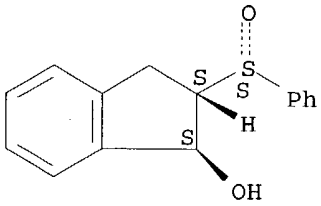


L8 ANSWER 9 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1988:224013 CAPLUS
DOCUMENT NUMBER: 108:224013
TITLE: Liquid-phase oxidation of thiophenol and indene by tert-butyl hydroperoxide and oxygen
AUTHOR(S): Mushruch, George W.; Watkins, John M.; Hazlett, Robert N.; Hardy, Dennis R.; Eaton, Harold G.
CORPORATE SOURCE: Nav. Res. Lab. Code 6180, Washington, DC, 20375-5000, USA
SOURCE: Fuel Science & Technology International (1988), 6(2), 165-83
CODEN: FSCTEG; ISSN: 0884-3759
DOCUMENT TYPE: Journal
LANGUAGE: English

AB tert-Bu hydroperoxide (I) or O initiated the oxidation of thiophenol in the presence of indene was examined in C6H6 at 120°. The reaction is kinetically complex, but it was possible to relate the product distribution to a few competing reactions. The product mixture was determined for several reaction time periods. The product slate was similar for all time periods, but yields of the individual components varied significantly with increasing reaction time. Gaseous products included isobutylene and a trace of CH4. The major product from I was tert-BuOH. The major product observed from thiophenol was Ph2S2. Addition products included the major product 2-phenylthiyl indan. Oxidation products included indanols, indanones, and the sulfoxide and sulfone of the major product 2-phenylthiyl indan. Solvent participation was noted by trace amts. of toluene.

IT **95720-00-6P**
RL: FORM (Formation, nonpreparative); PREP (Preparation)
(formation of, in indene reaction with thiophenol and oxygen or tert-Bu hydroperoxide, jet fuel in relation to)
RN 95720-00-6 CAPLUS
CN 1H-Inden-1-ol, 2,3-dihydro-2-[(R)-phenylsulfinyl]-, (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



L8 ANSWER 10 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1985:148840 CAPLUS
DOCUMENT NUMBER: 102:148840
TITLE: Stereoselective oxidative addition of benzenethiol to indene in the presence of ovalbumin

AUTHOR(S): Baeza, Jaime; Freer, Juanita; Palma, Graciela
CORPORATE SOURCE: Dep. Quim., Univ. Concepcion, Concepcion, Chile
SOURCE: Monatshefte fuer Chemie (1984), 115(11), 1369-71
CODEN: MOCMB7; ISSN: 0026-9247
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 102:148840

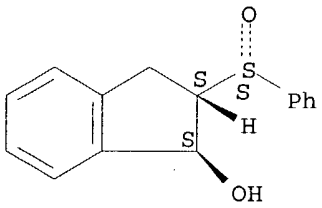
AB The oxidative addition of PhSH to indene in the presence of ovalbumin produces only trans-anti-2-phenylsulfinyl-1-indanol. This reaction may be considered as a biomimetic model of detoxification of certain hydrocarbons by the liver.

IT **95720-00-6**
RL: PROC (Process)
(stereospecific formation of, in presence of ovalbumin)

RN 95720-00-6 CAPLUS

CN 1H-Inden-1-ol, 2,3-dihydro-2-[(R)-phenylsulfinyl]-, (1R,2R)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



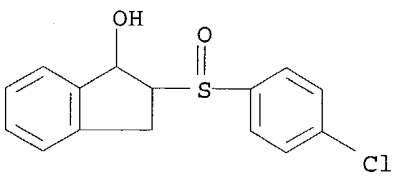
L8 ANSWER 11 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1978:190435 CAPLUS
DOCUMENT NUMBER: 88:190435
TITLE: Thiol-olefin cooxidation reaction. 6. A new convenient route to 1-substituted indenes. Indenone as dienophile in Diels-Alder reactions
AUTHOR(S): Szmant, H. Harry; Nanjundiah, Raghunath
CORPORATE SOURCE: Dep. Chem. Chem. Eng., Univ. Detroit, Detroit, MI, USA
SOURCE: Journal of Organic Chemistry (1978), 43(9), 1835-7
CODEN: JOCEAH; ISSN: 0022-3263
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 88:190435

AB 2-(4-Chlorophenylsulfinyl)-1-indanone was decomposed in refluxing toluene to give indenone which was trapped by cyclopentadiene, hexachlorocyclopentadiene, and anthracene to give the resp. Diels-Alder adducts.

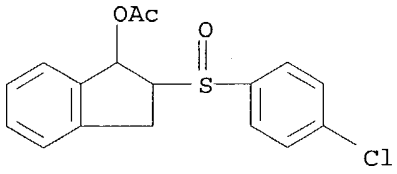
IT **62967-56-0**
RL: RCT (Reactant); RACT (Reactant or reagent)
(oxidation of, 1-indanone analog from)

RN 62967-56-0 CAPLUS

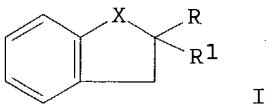
CN 1H-Inden-1-ol, 2-[(4-chlorophenyl)sulfinyl]-2,3-dihydro- (9CI) (CA INDEX NAME)



IT **65495-98-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 65495-98-9 CAPLUS
CN 1H-Inden-1-ol, 2-[(4-chlorophenyl)sulfinyl]-2,3-dihydro-, acetate (9CI) (CA INDEX NAME)

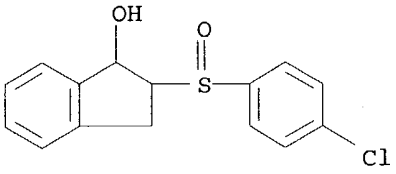


L8 ANSWER 12 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1977:422824 CAPLUS
DOCUMENT NUMBER: 87:22824
TITLE: A new route to 1,2-indanedione
AUTHOR(S): Szmant, H. Harry; Nanjundiah, Raghunath
CORPORATE SOURCE: Dep. Chem. Chem. Eng., Univ. Detroit, Detroit, MI, USA
SOURCE: Organic Preparations and Procedures International (1977), 9(1), 35-8
CODEN: OPPIAK; ISSN: 0030-4948
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 87:22824
GI



I

AB O was bubbled through a mixture of indene and p-ClC6H4SH in isooctane at room temperature and the resultant mixture of isomeric indanol sulfoxides (I; X = CHOH; R = H; R1 = p-ClC6H4SO) was oxidized with Jones reagent to give indanone sulfoxide (I; X = CO; R and R1 as before), which was refluxed with MeOH in the presence of iodine and the product (I; X = CO; R = R1 = OMe) was deketalized with EtOH-H2SO4 at reflux to give 1,2-indandione [I; X = CO; (RR1) = O].
IT **62967-56-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and Jones oxidation of)
RN 62967-56-0 CAPLUS
CN 1H-Inden-1-ol, 2-[(4-chlorophenyl)sulfinyl]-2,3-dihydro- (9CI) (CA INDEX NAME)



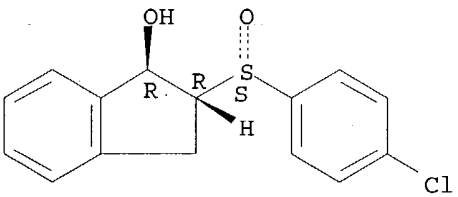
L8 ANSWER 13 OF 22 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1977:170438 CAPLUS
DOCUMENT NUMBER: 86:170438
TITLE: The thiol-olefin cooxidation (TOCO) reaction. IV. Temperature effects on product distribution in the TOCO reaction of indene and aromatic thiols
AUTHOR(S): Szmant, H. H.; Mata, A. J.; Namis, A. J.; Panthananickal, A. M.
CORPORATE SOURCE: Dep. Chem., Univ. Detroit, Detroit, MI, USA
SOURCE: Tetrahedron (1976), 32(22), 2665-80
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The stereochem. of the TOCO reaction of indene with RC6H4SH (R = 4-Cl, 4-MeO, 3-Me) is temperature dependent. Increasing amts. of cis addition products are formed as the temperature is lowered to -23° and raised to .apprx.60°. The sensitivity of the temperature effect depends on the electronic character of the substituent in RC6H4SH. The effect of solvent, addition of cumyl hydroperoxide, K2S2O8, galvinoxyl, PhNOCMe3, Na2S2O3, and Na tetrathionate, and the kinetics of the TOCO reaction were determined

IT **62703-00-8P 62703-01-9P 62703-02-0P**
62703-05-3P 62703-06-4P 62703-07-5P
62703-10-0P 62703-11-1P 62703-12-2P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and oxidation of)

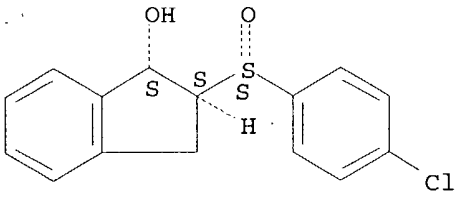
RN 62703-00-8 CAPLUS
CN 1H-Inden-1-ol, 2-[(4-chlorophenyl)sulfinyl]-2,3-dihydro-, [1α,2β(S*)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



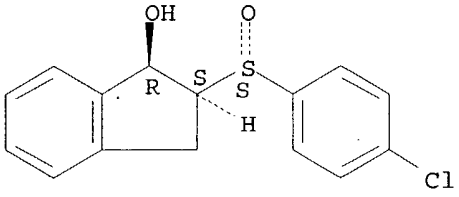
RN 62703-01-9 CAPLUS
CN 1H-Inden-1-ol, 2-[(4-chlorophenyl)sulfinyl]-2,3-dihydro-, [1α,2β(R*)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



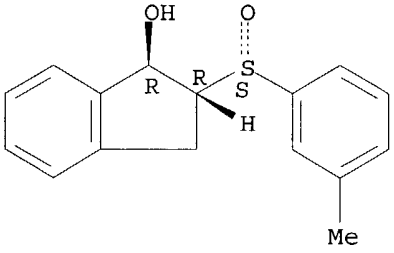
RN 62703-02-0 CAPLUS
CN 1H-Inden-1-ol, 2-[(4-chlorophenyl)sulfinyl]-2,3-dihydro-, [1α,2α(S*)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



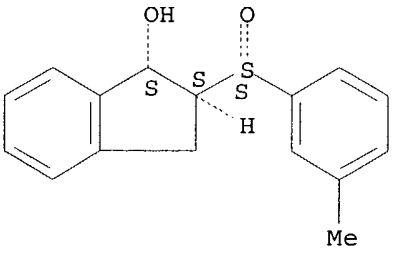
RN 62703-05-3 CAPLUS
CN 1H-Inden-1-ol, 2,3-dihydro-2-[(3-methylphenyl)sulfinyl]-, [1α,2β(S*)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 62703-06-4 CAPLUS
CN 1H-Inden-1-ol, 2,3-dihydro-2-[(3-methylphenyl)sulfinyl]-, [1α,2β(R*)]- (9CI) (CA INDEX NAME)

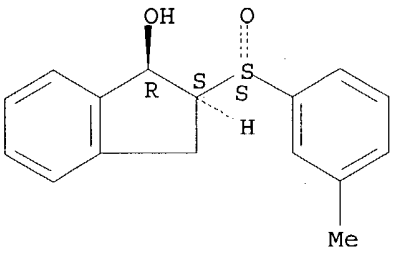
Relative stereochemistry.



RN 62703-07-5 CAPLUS
CN 1H-Inden-1-ol, 2,3-dihydro-2-[(3-methylphenyl)sulfinyl]-,

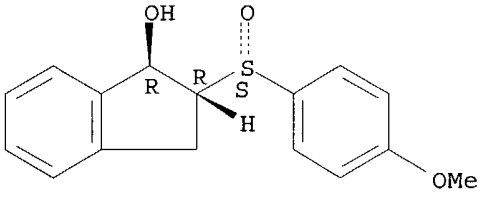
[1α,2α(S*)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



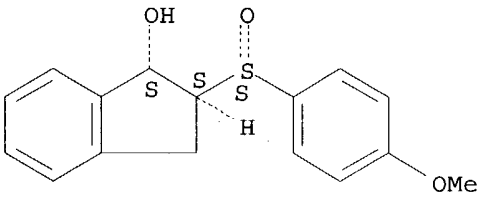
RN 62703-10-0 CAPLUS
CN 1H-Inden-1-ol, 2,3-dihydro-2-[(4-methoxyphenyl)sulfinyl]-,
[1α,2β(S*)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



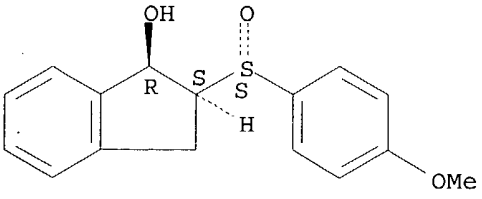
RN 62703-11-1 CAPLUS
CN 1H-Inden-1-ol, 2,3-dihydro-2-[(4-methoxyphenyl)sulfinyl]-,
[1α,2β(R*)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.

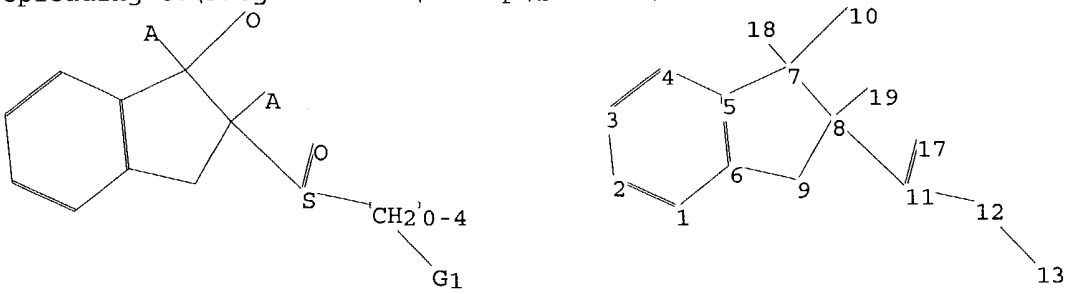


RN 62703-12-2 CAPLUS
CN 1H-Inden-1-ol, 2,3-dihydro-2-[(4-methoxyphenyl)sulfinyl]-,
[1α,2α(S*)]- (9CI) (CA INDEX NAME)

Relative stereochemistry.



Uploading C:\Program Files\Stnexp\Queries\10692735.str



chain nodes :
10 11 12 13 17 18 19
ring nodes :
1 2 3 4 5 6 7 8 9
chain bonds :
7-10 7-18 8-11 8-19 11-12 11-17 12-13
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9
exact/norm bonds :
5-7 6-9 7-8 7-10 7-18 8-9 8-11 8-19 11-17 12-13
exact bonds :
11-12
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6

G1:Cy,Ak

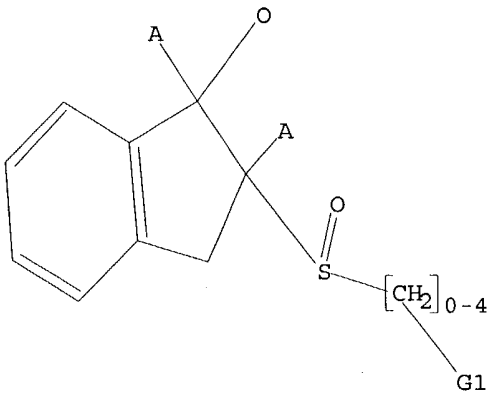
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:CLASS
11:CLASS 12:CLASS 13:CLASS 17:CLASS 18:CLASS 19:CLASS

L4 STRUCTURE UPLOADED

=> que L4

L5 QUE L4

=> d
L5 HAS NO ANSWERS
L4 STR



G1 Cy,Ak

Structure attributes must be viewed using STN Express query preparation.
L5 QUE ABB=ON PLU=ON L4

=> s l5 full
FULL SEARCH INITIATED 16:30:51 FILE 'BEILSTEIN'
FULL SCREEN SEARCH COMPLETED - 4755 TO ITERATE

100.0% PROCESSED 4755 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.07

L6 0 SEA SSS FUL L4